

1 Attorney Docket No. 83806

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3 A BROADBAND TOWED LINE ARRAY WITH
4 SPATIAL DISCRIMINATION CHARACTERISTICS

5 ABSTRACT OF THE DISCLOSURE

6 A modular sub-array assembly of a composite towed array
7 includes a multi-chamber support structure with plural discrete
8 chambers, an acoustically absorptive hub formed at a central axis
9 of the multi-chamber support structure, and a sensor element in
10 each of the chambers of the multi-chamber support structure. The
11 multi-chamber support structure is an integrally formed
12 viscoelastic cylindrical housing with an array of radially
13 oriented chambers. Each sensor element is secured within the
14 selected chamber of the multi-chamber support structure and to an
15 outer radial surface of the acoustically absorptive hub by a
16 structural adhesive. Plural sub-array modules may be assembled
17 together to form a single towed array.